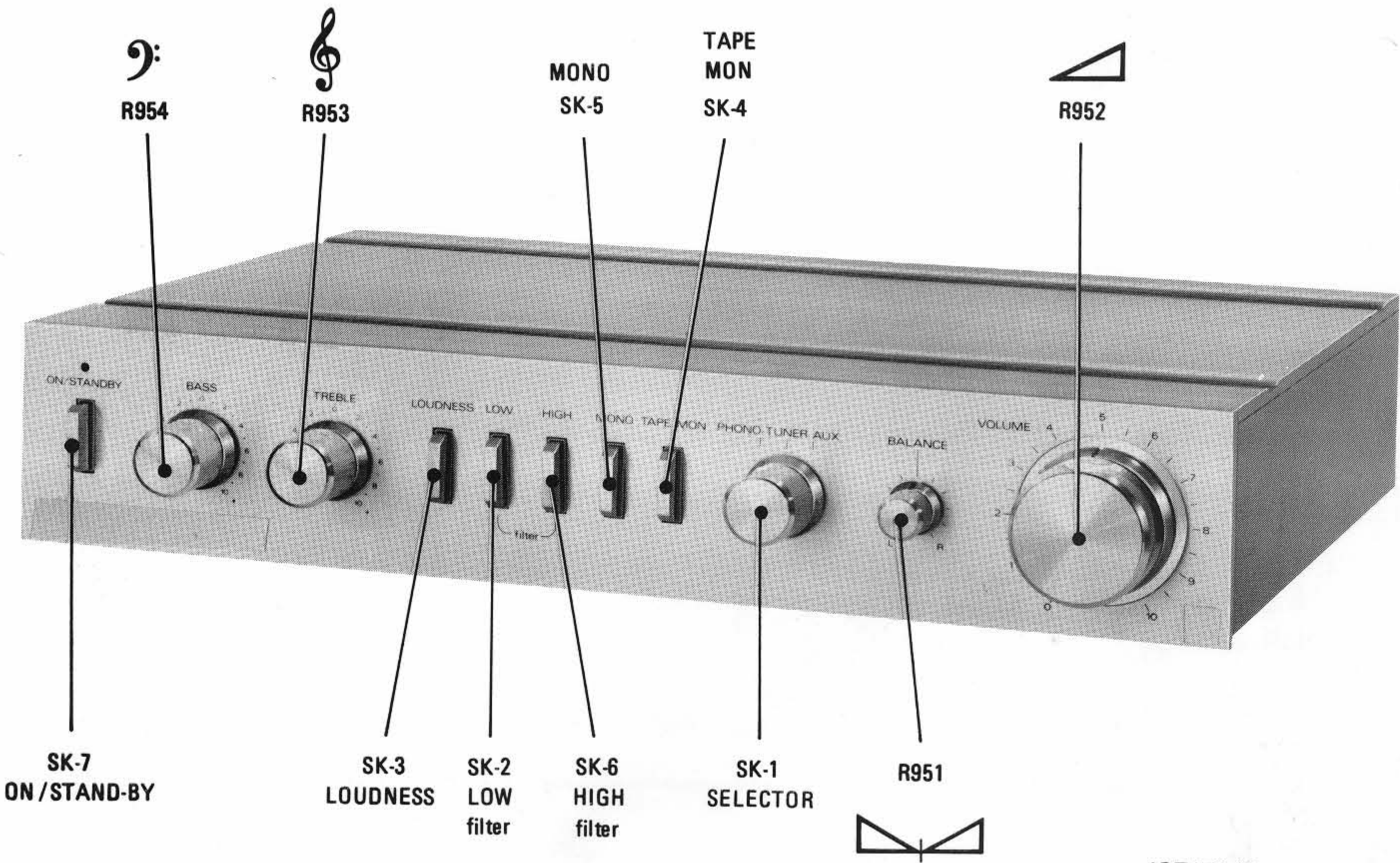


Service  
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# Service Manual



19517A12



GB

NL

F

Subject to modification

4822 725 13587

D

S

Printed in The Netherlands

**PHILIPS**

(GB)

Supply voltage : 220 V  
 Dimensions : 260 x 50 x 183 mm  
 Input sensitivity for 1V output voltage  
 Phono : 2.5 mV/50k ohm  
 Aux : 250 mV/100k ohm  
 Tuner : 250 mV/100k ohm  
 Tape : 250 mV/100k ohm

For more technical specification please consult commercial documentation.

(NL)

Voedingsspanning : 220 V  
 Afmetingen : 260 x 50 x 183 mm  
 Ingangsevoeligheid bij 1V uitgangsspanning  
 Phono : 2.5 mV/50k ohm  
 Aux : 250 mV/100k ohm  
 Tuner : 250 mV/100k ohm  
 Recorder : 250 mV/100k ohm

Voor meer uitgebreide technische specificaties gelieve de commerciële documentatie te raadplegen.

(F)

Tension d'alimentation : 220 V  
 Encombrement : 260 x 50 x 183 mm  
 Sensibilité d'entrée à 1V tension de sortie  
 Phono : 2.5 mV/50k ohm  
 Aux : 250 mV/100k ohm  
 Adaptateur : 250 mV/100k ohm  
 Magnetophone : 250 mV/100k ohm

Pour l'obtention de données techniques plus détaillées veuillez consultez la documentation commerciale.

(D)

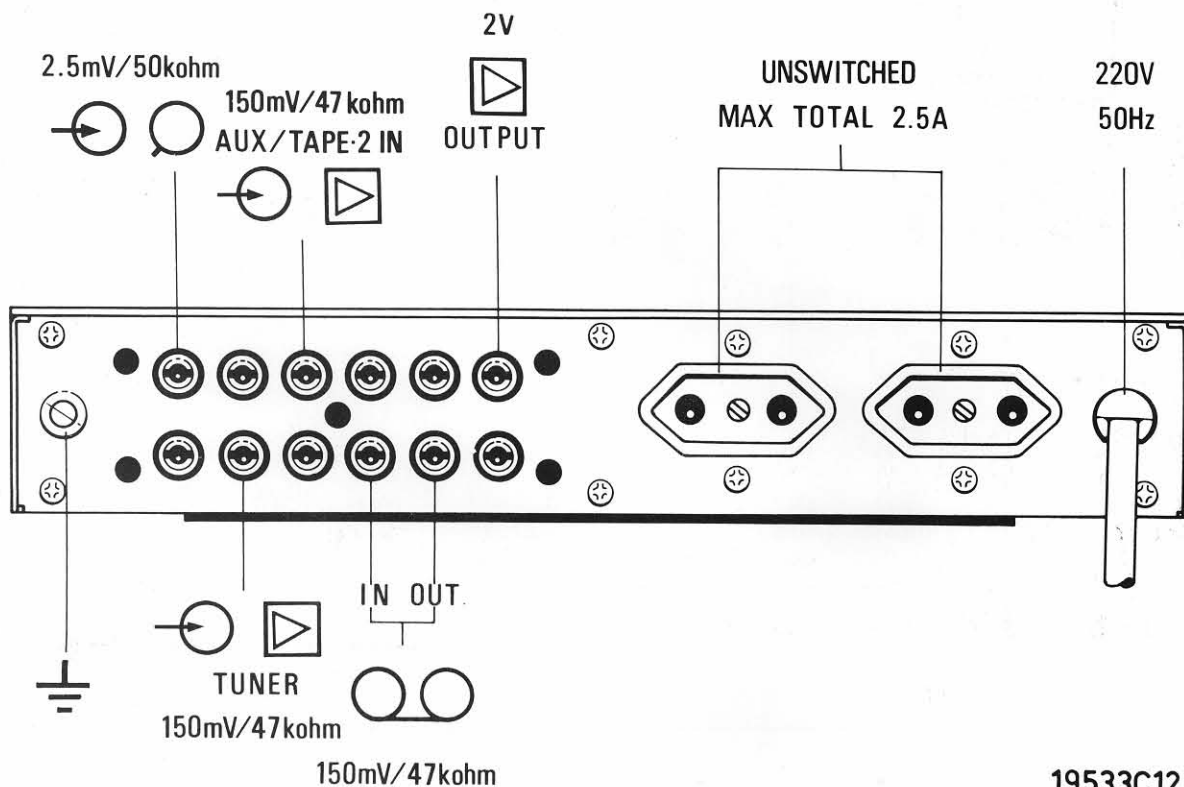
Speisespannung : 220 V  
 Abmessungen : 260 x 50 x 183 mm  
 Eingangsempfindlichkeit bei 1V Ausgangsspannung  
 Phono : 2.5 mV/50k ohm  
 Aux : 250 mV/100k ohm  
 Tuner : 250 mV/100k ohm  
 Recorder : 250 mV/100k ohm

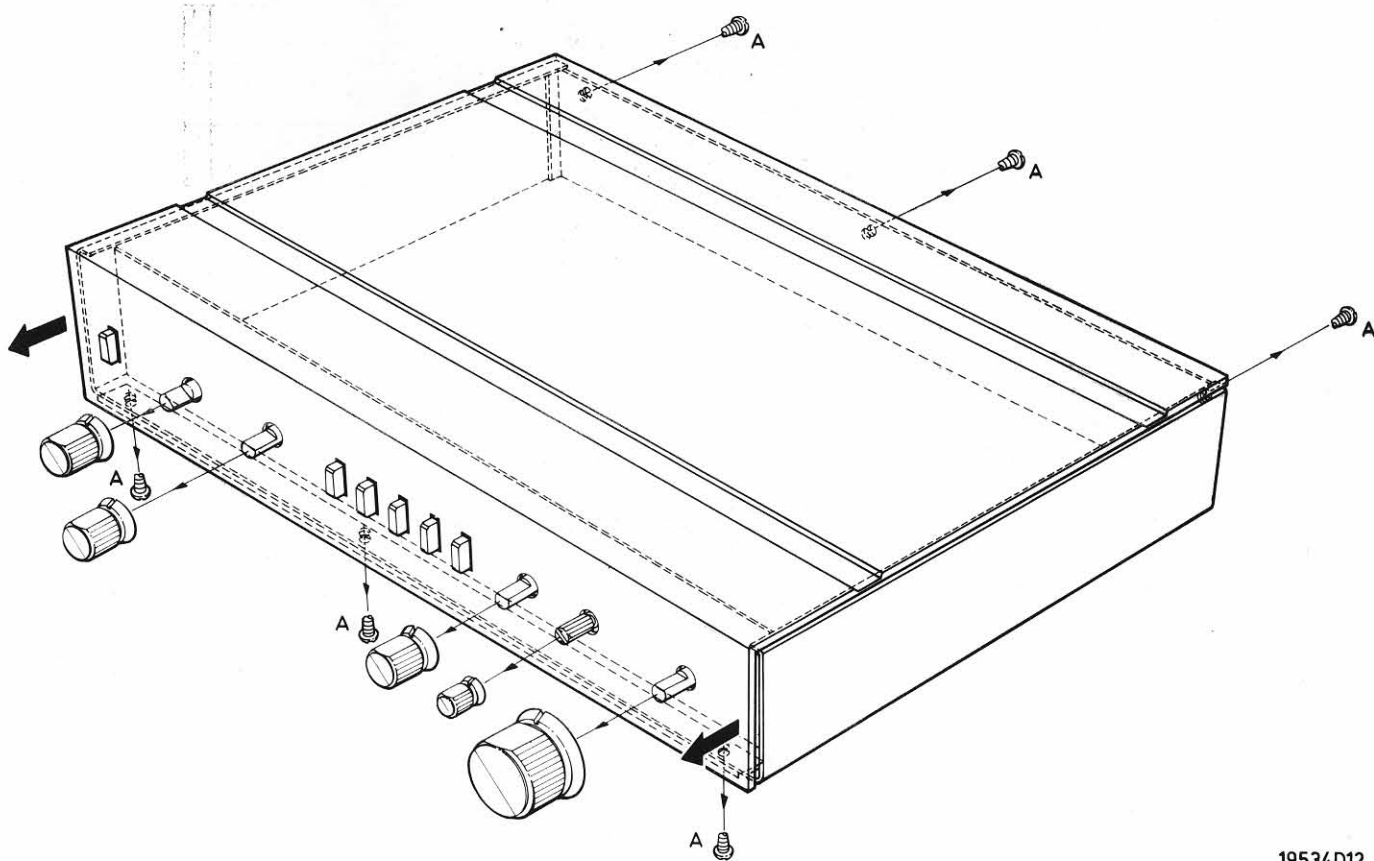
Für eine mehr detaillierte technische Spezifikation verweisen wir auf die kommerzielle Dokumentation.

(S)

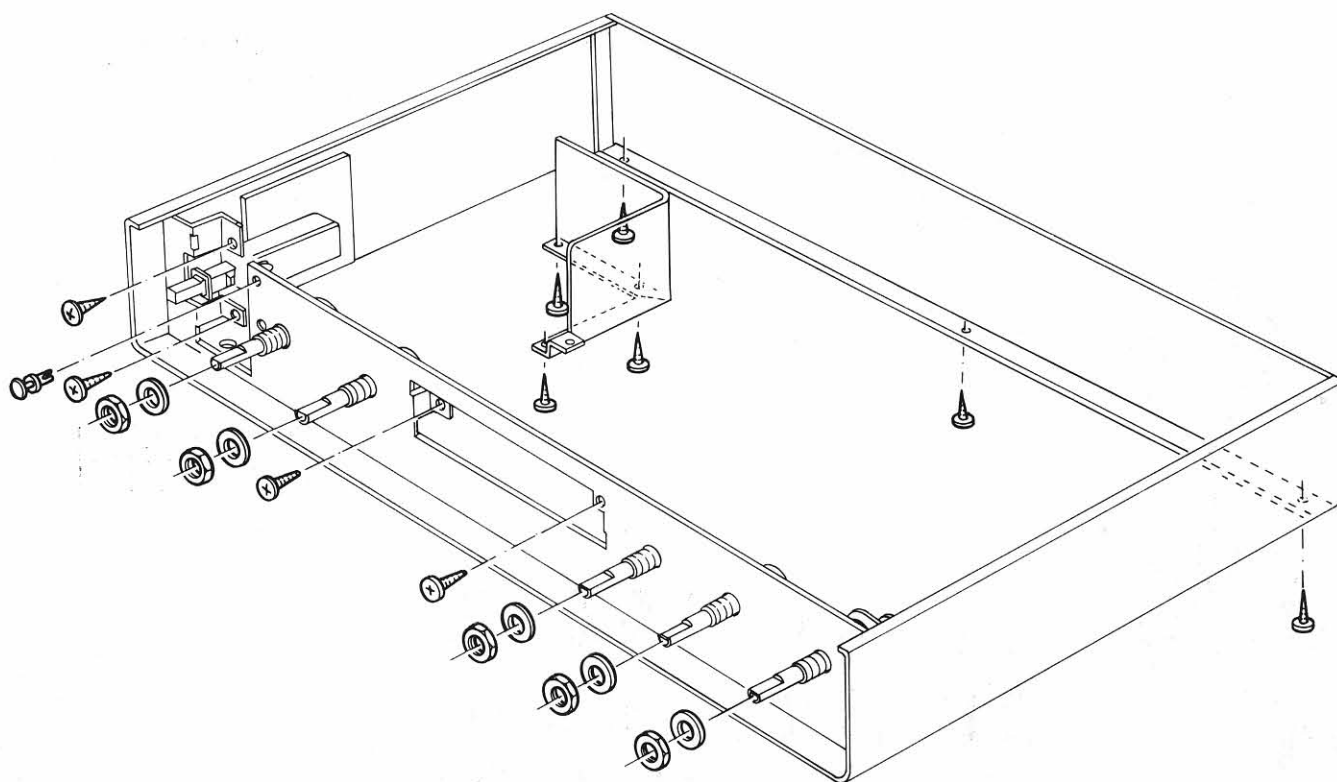
Matningsspanning : 220 V  
 Demensioner : 260 x 50 x 183 mm  
 Ingångskänslighet vid 1V utgångsspanning  
 Grammofon : 2.5 mV/50k ohm  
 Aux : 250 mV/100k ohm  
 Tuner : 250 mV/100k ohm  
 Bandspelare : 250 mV/100k ohm

För mera detaljerade tekniska data se kommersiell dokumentation.

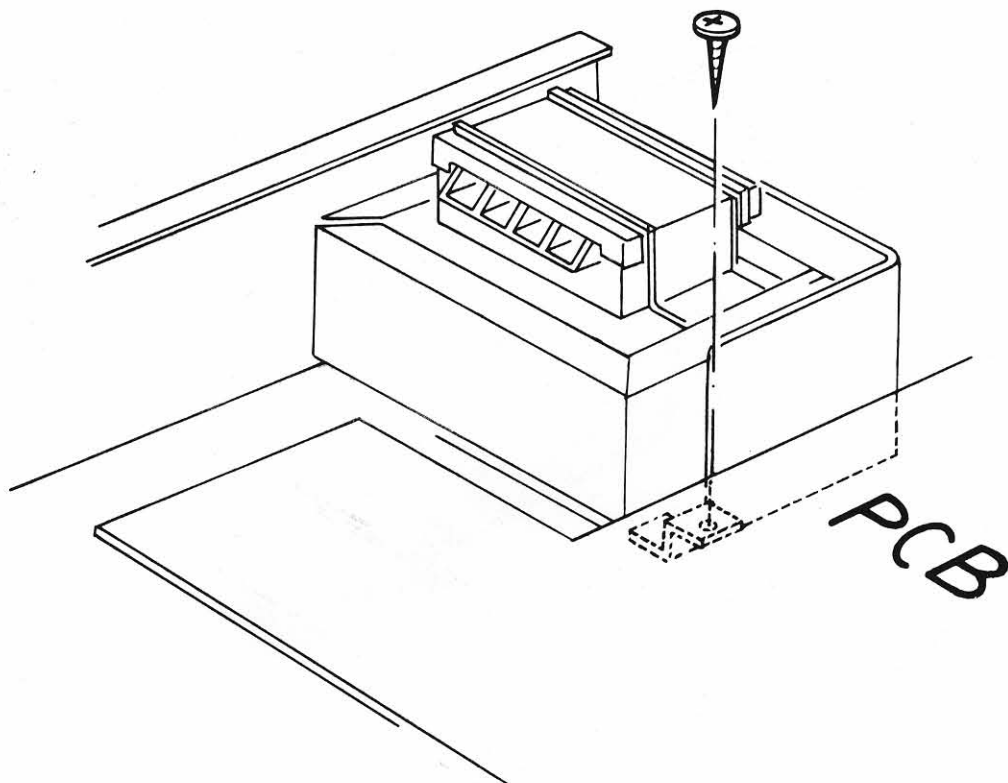




19534D12



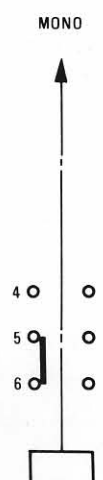
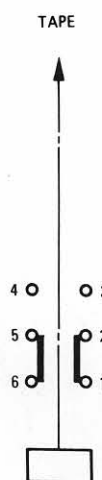
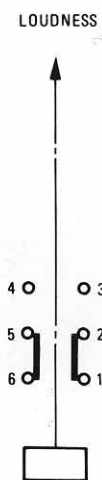
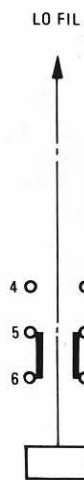
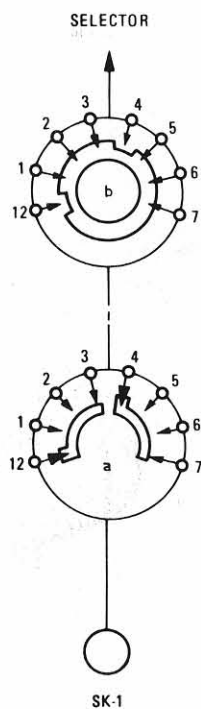
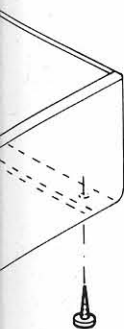
19954C12



19534D12

19953A12

SELECTOR  
 12 4 PHONO  
 1 5 TUNER  
 2 6 AUX  
 3 7 COMMON: GROUND



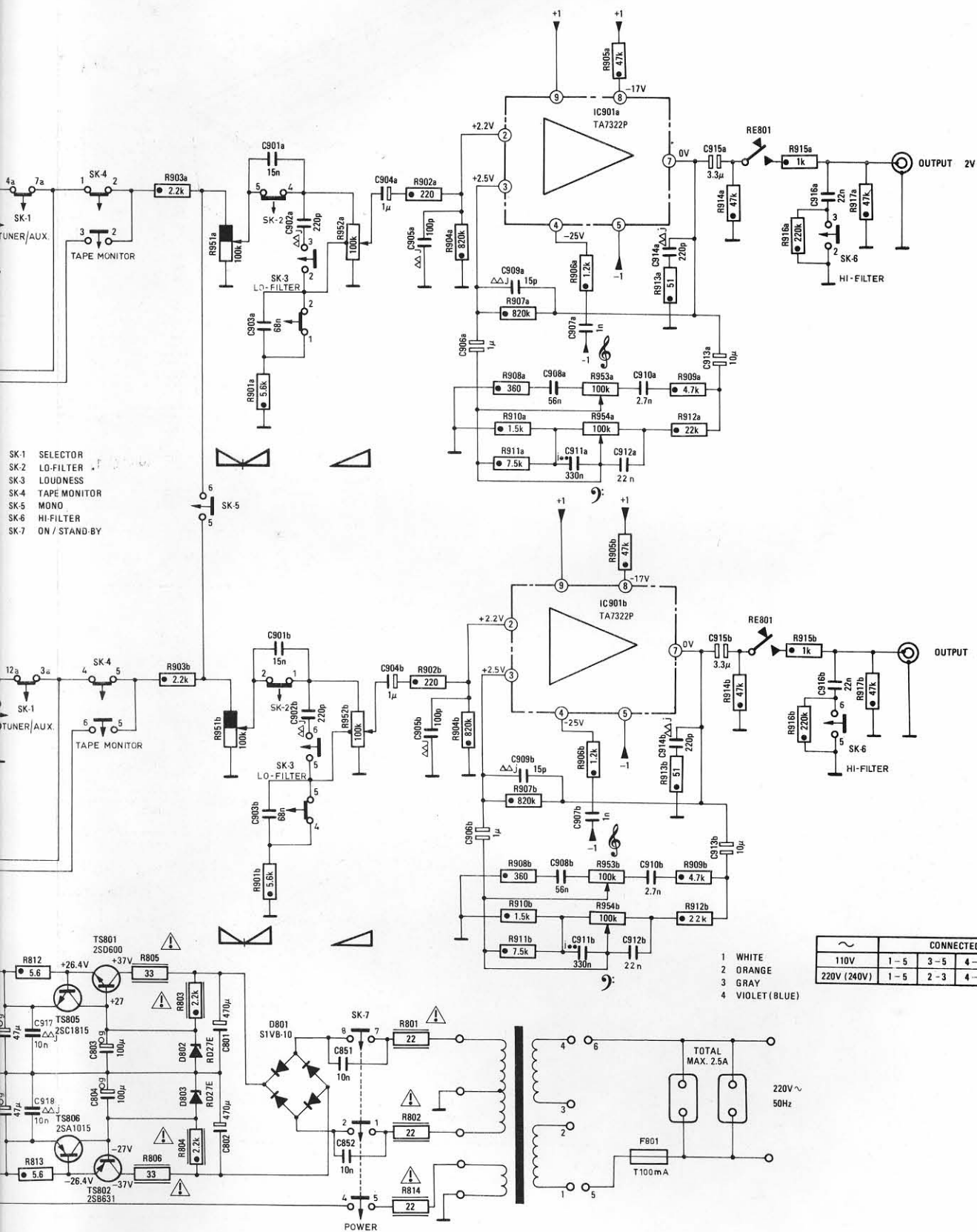
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19531C12

CS 69 932

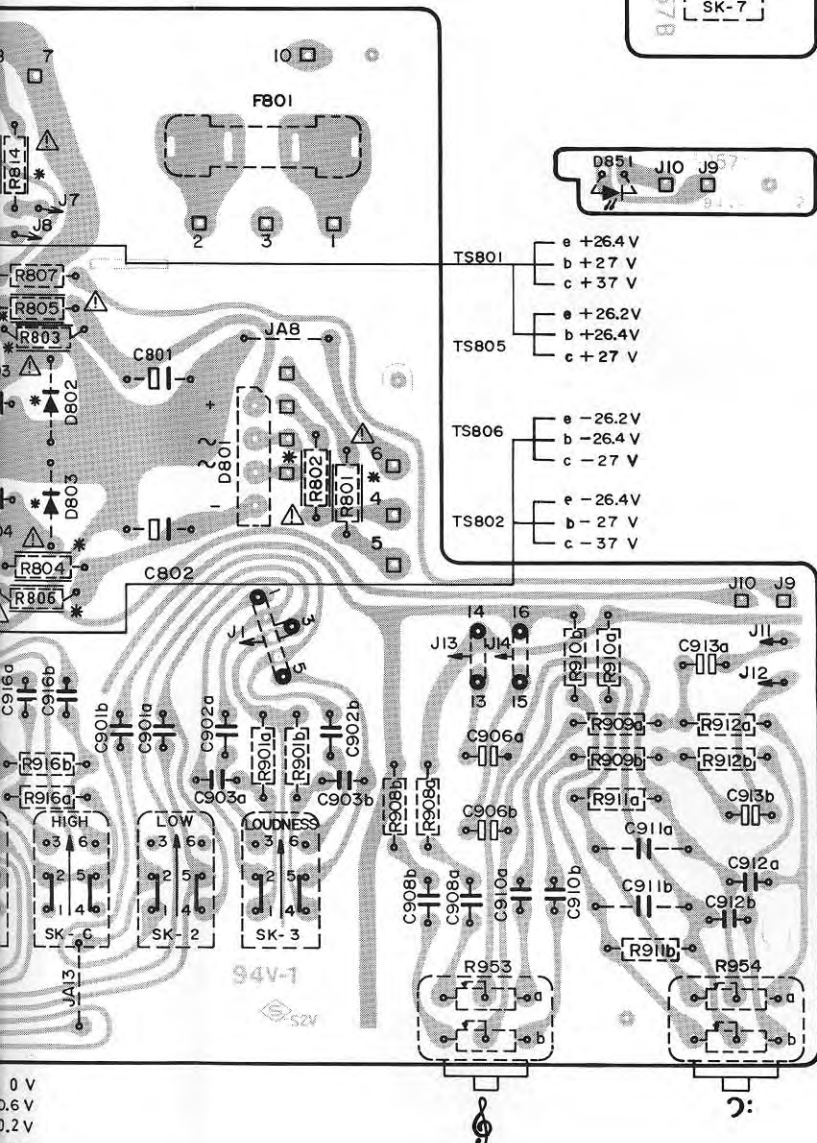
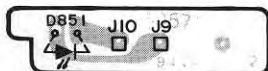
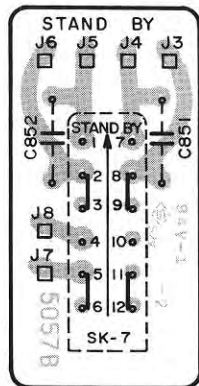
CS 69 933

|     |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |   |  |  |  |  |  |  |   |
|-----|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|------|---|--|--|--|--|--|--|---|
|     |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | IC901a |      |      |   |  |  |  |  |  |  | M |
|     |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | IC901b |      |      |   |  |  |  |  |  |  | M |
|     |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | F801   |      |      |   |  |  |  |  |  |  | M |
| 06  | TS801 | TS802 | D802 | D803 | D801 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      |      |   |  |  |  |  |  |  |   |
|     | 918   |       |      |      | 903a | 901a | 902a |      | 904a | 905a | 906a | 909a | 907a | 908a | 911a | 912a | 910a | 914a | 913a | 915a | 916a | C    |        |      |      |   |  |  |  |  |  |  |   |
|     | 917   |       |      |      | 903b | 901b | 902b |      | 904b | 905b | 906b | 909b | 907b | 908b | 911b | 912b | 910b | 914b | 913b | 915b | 916b | C    |        |      |      |   |  |  |  |  |  |  |   |
| 803 | 804   |       | 801  | 802  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        | C    |      |   |  |  |  |  |  |  |   |
|     |       |       |      |      | 903a | 951a | 901a | 952a | 902a | 904a | 907a | 908a | 910a | 911a | 953a | 954a | 906a | 905a | 913a | 909a | 912a | 914a | 915a   | 916a | 917a | R |  |  |  |  |  |  |   |
|     |       |       |      |      | 903b | 951b | 901b | 952b | 902b | 904b | 907b | 908b | 910b | 911b | 953b | 954b | 906b | 905b | 913b | 909b | 912b | 914b | 915b   | 916b | 917b | R |  |  |  |  |  |  |   |
| 805 | 806   | 803   | 804  |      | 801  | 802  | 814  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |      | R    |   |  |  |  |  |  |  |   |





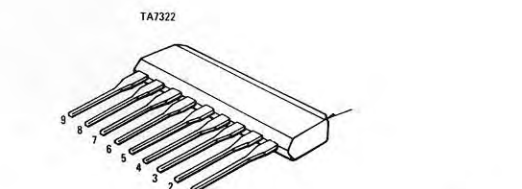
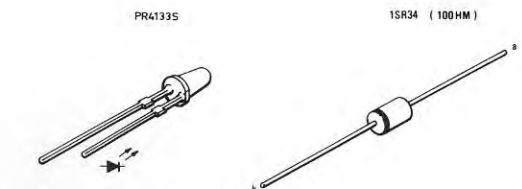
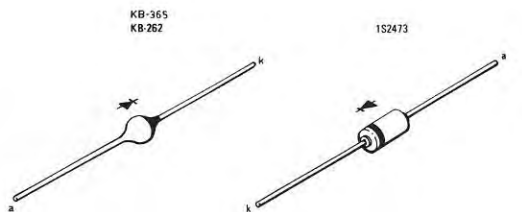
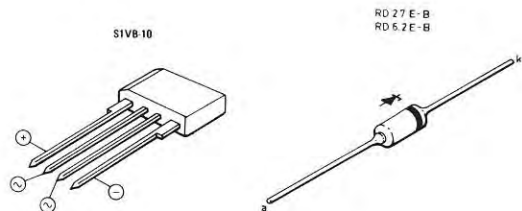
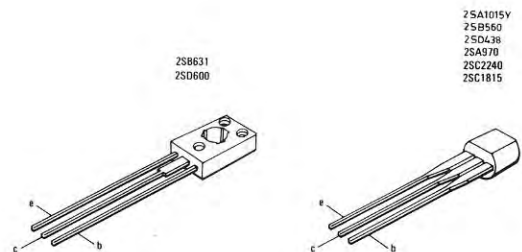
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|-----------|---------|-----------|------|------|-------------------|---|
| D802      | D801    | F801      | SK-7 |      |                   | M |
| D803 SK-6 | SK-2    | SK-3      | D851 |      |                   | M |
| 805       | 802 801 | 901a-903a | 908a | 906a | 852 910a-913a 851 | C |
| 916a 916b |         | 901b-903b | 908b | 906b | 910b-913b         | C |
| 803-807   | 802 801 |           | 908a |      | 909a-912a         | R |
| 916a 916b |         | 901a 901b | 908b | 953  | 909b-912b 954     | R |



0 V  
0.6 V  
0.2 V  
0 V  
2 V  
6 V

\* TO BE MOUNTED 10mm ABOVE THE PRINT

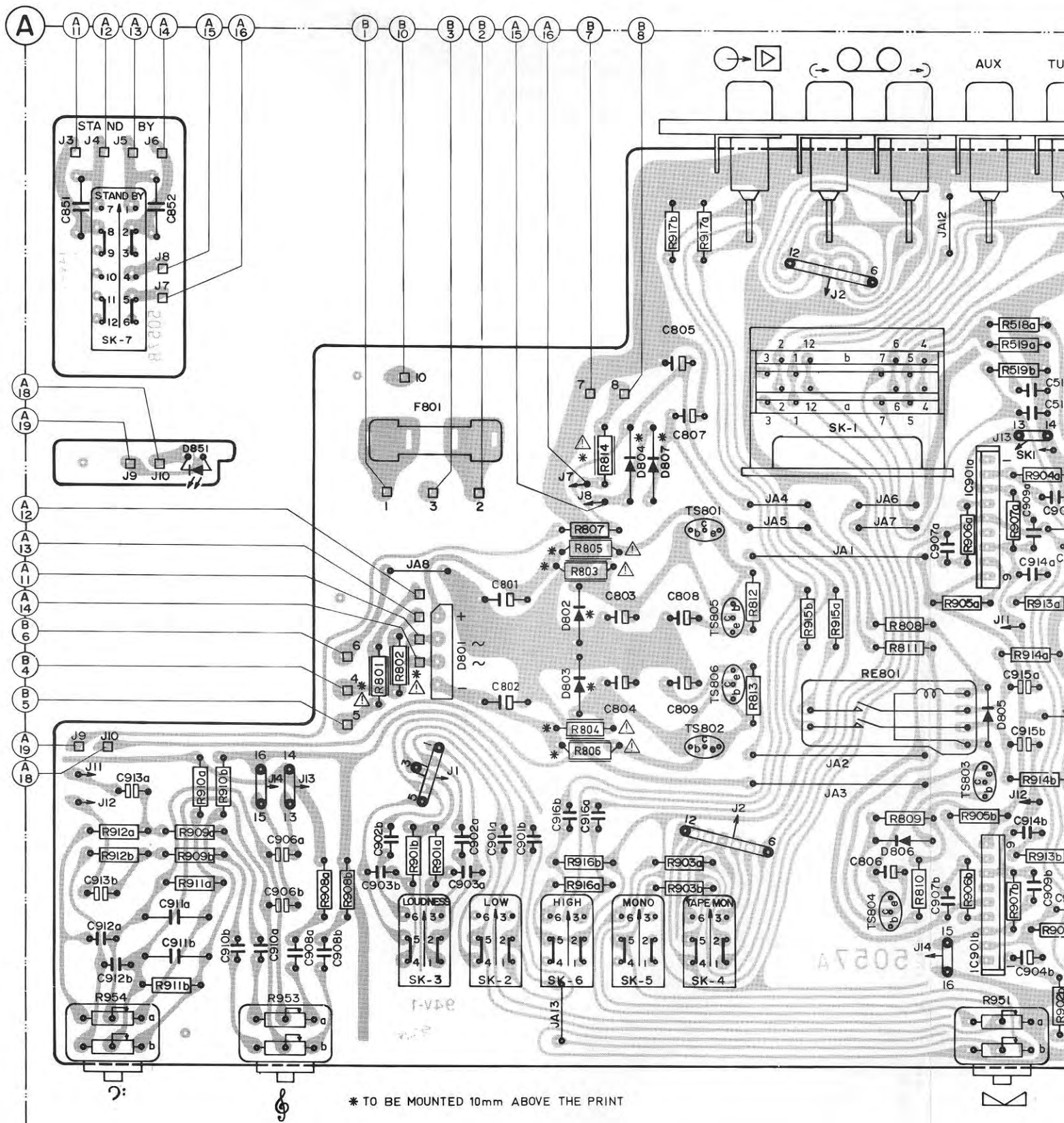
19536D12



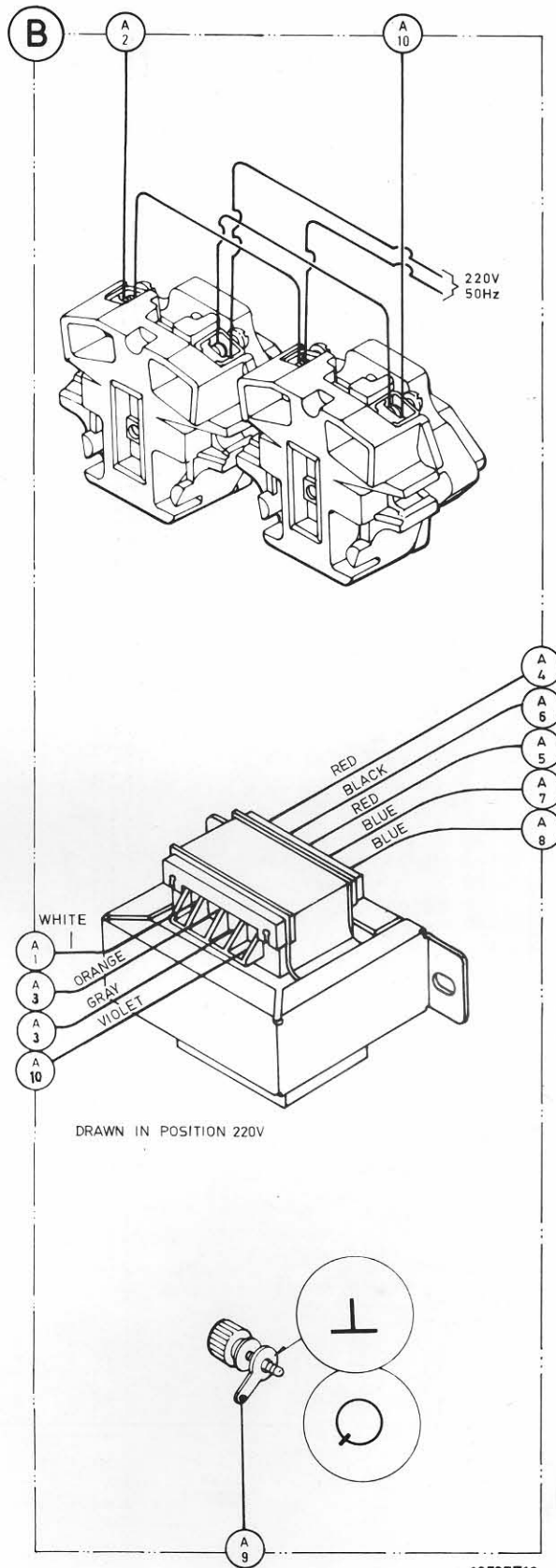
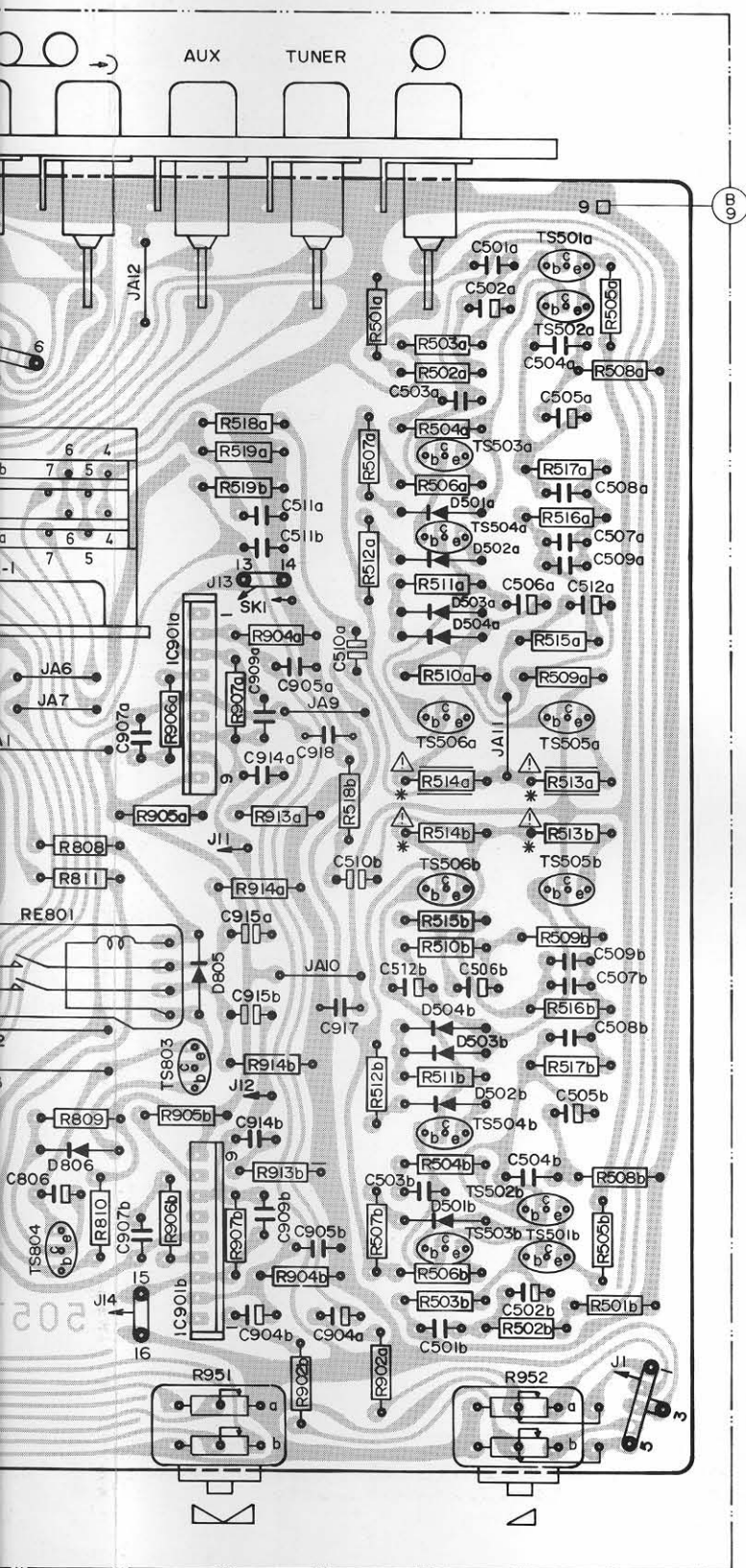
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25B560  
25D438  
25A970  
25C2240  
25C1815

19532D12

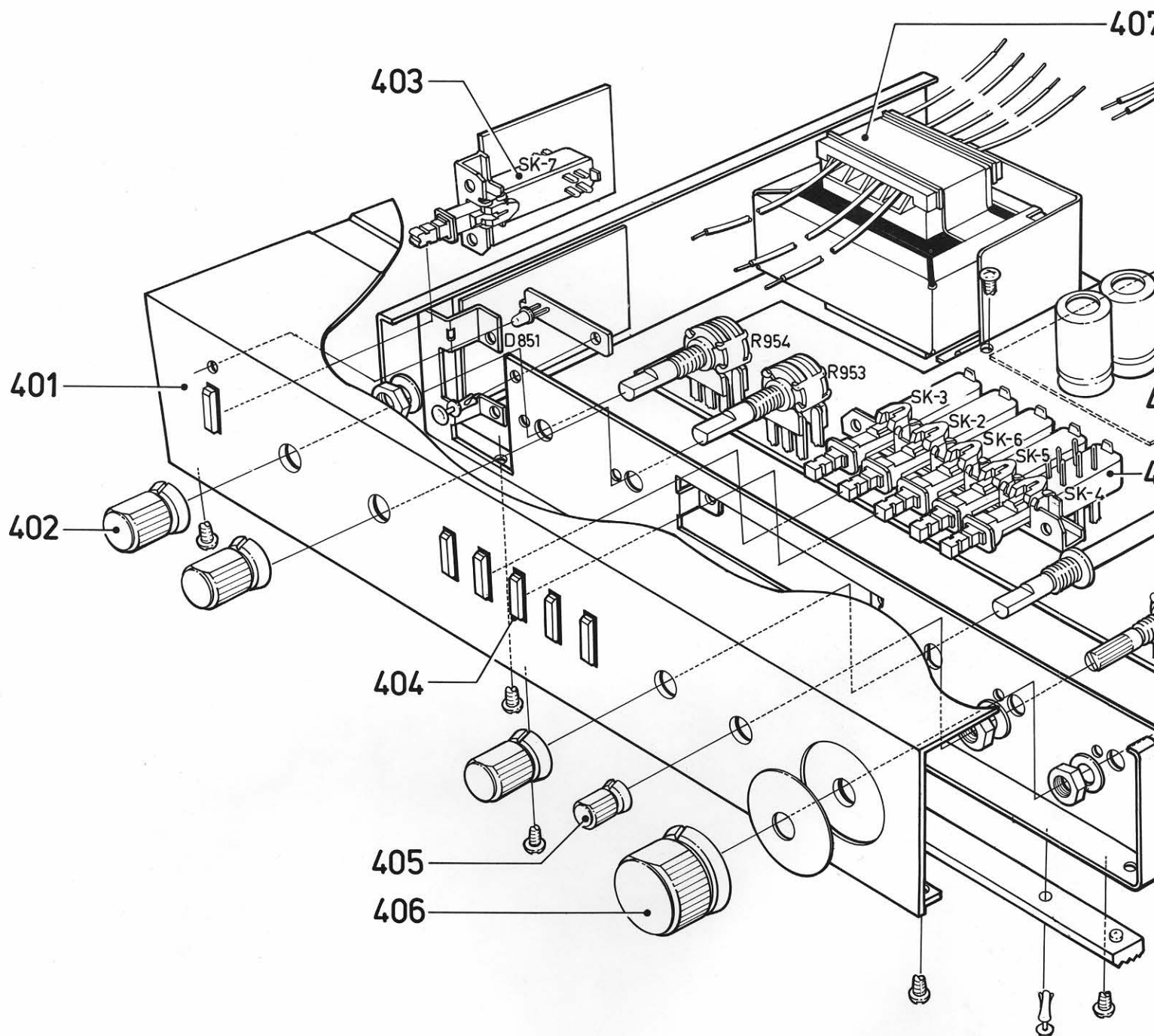
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|---|-------------|-------------|------|------|------|-------------|------|-----|------|---------|------|------|-------|---------|------|-------|-------|--------|-------|------|-------|-----------|-------------|-------------|------|------|------|------|------|
| M | SK- 7       |             |      |      | F801 | D801        | D802 |     |      |         | D804 | D807 | TS801 | TS805   | SK-1 |       | D805  | IC901a | D501a |      |       |           |             |             |      |      |      |      |      |
| M | D851        |             |      |      | SK-3 |             | SK-2 |     | SK-6 |         | D803 | SK-5 |       | SK-4    |      | TS802 | TS806 | RE801  | TS804 | D806 | TS803 | IC901b    | D501b       |             |      |      |      |      |      |
| C | 851         | 910a - 913a | 852  | 906a | 908a | 901a - 903a |      | 801 | 802  | 803-805 |      |      |       | 807-809 |      | 907a  |       |        |       |      |       |           | 909a        | 915a        | 905a | 9    |      |      |      |
| C | 910b - 913b |             | 906b |      | 908b | 901b - 903b |      |     |      | 916b    |      |      |       | 916a    |      | 806   |       |        |       |      |       |           | 907b        | 909b        |      | 915b | 905b | 9    |      |
| R | 909a - 912a |             |      |      | 908a |             | 801  | 802 |      | 803-807 |      |      |       | 814     | 917b | 917a  | 812   |        | 915b  |      | 915a  | 808 - 811 |             | 904a - 907a |      | 913a |      | 914a |      |
| R | 954         | 909b - 912b |      | 953  | 908b |             | 901b |     | 901a |         | 916b |      |       |         | 916a |       | 903a  |        | 903b  |      | 813   |           | 904b - 907b |             |      |      | 951  | 913b | 914b |

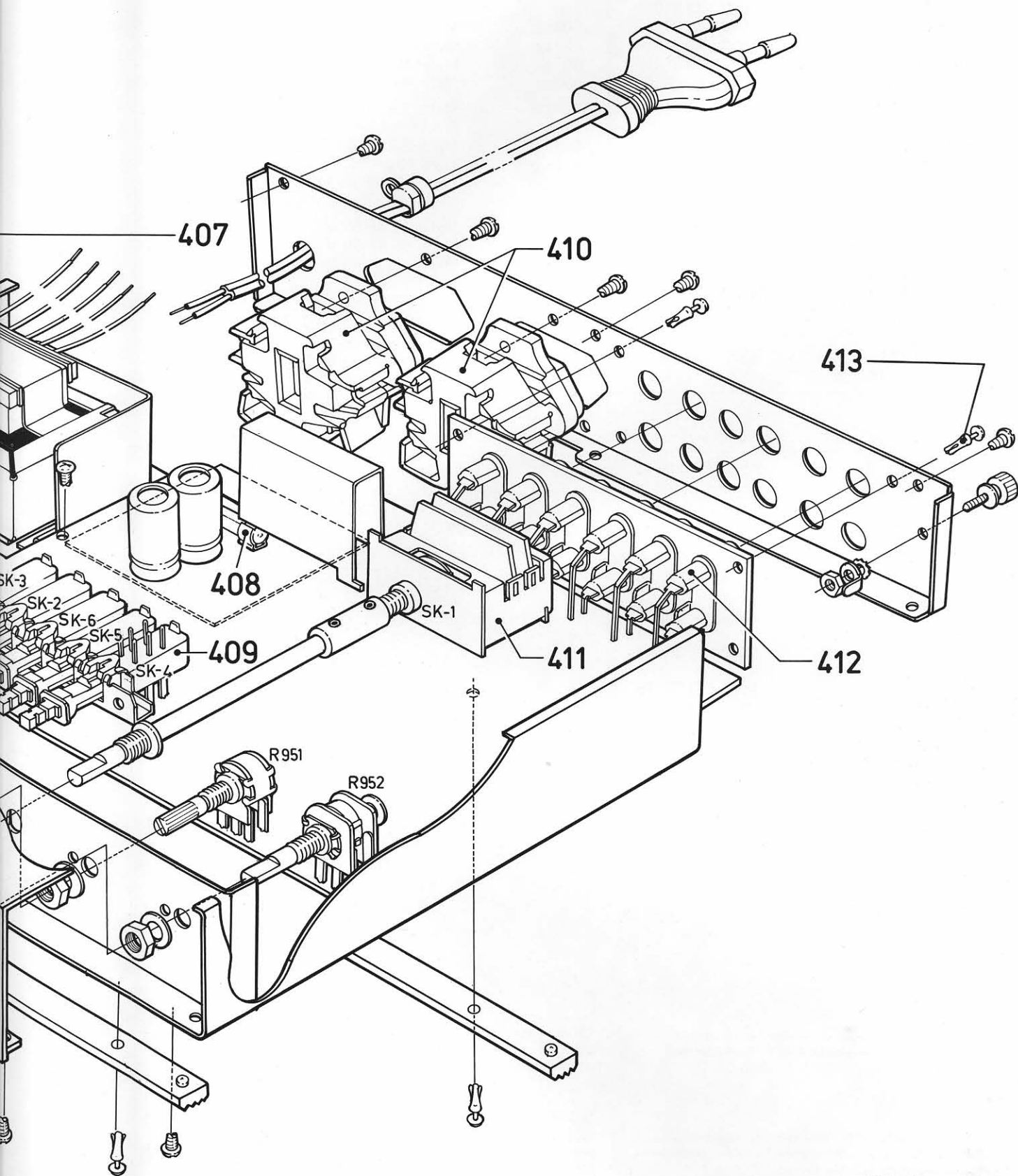


|    |           |           |             |               |             |               |      |           |           |   |
|----|-----------|-----------|-------------|---------------|-------------|---------------|------|-----------|-----------|---|
|    | D805      | IC901a    | D501a-D504a | TS501a-TS506a | M           |               |      |           |           |   |
| D) | TS804     | D806      | TS803       | IC901b        | D501b-D504b | TS501b-TS506b | M    |           |           |   |
|    | 907a      | 909a      | 915a        | 905a          | 914a        | 904a          | 918  | 501a-512a | C         |   |
|    | 806       | 907b      | 909b        | 915b          | 905b        | 914b          | 904b | 917       | 501b-512b | C |
|    | 808-811   | 904a-907a | 913a        | 914a          | 902a        | 501a-519a     | R    |           |           |   |
|    | 904b-907b | 951       | 913b        | 914b          | 902b        | 501b-519b     | 952  | R         |           |   |



|     |                |
|-----|----------------|
| 401 | 4822 426 50408 |
| 402 | 4822 413 30865 |
| 403 | 4822 276 10767 |
| 404 | 4822 410 22308 |
| 405 | 4822 413 30864 |
| 406 | 4822 413 40875 |
| 407 | 4822 146 20584 |
| 408 | 4822 256 30154 |
| 409 | 4822 276 50265 |
| 410 | 4822 267 40348 |
| 411 | 4822 273 30248 |
| 412 | 4822 267 50298 |
| 413 | 4822 502 11422 |





18362D14

| -D-                                                                                           |  |                |  | -C-                    |  |                |  |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|--|------------------------|------------------------------------------------------------------------------------|----------------|--|
| 501a,b 502a,b                                                                                 | 1S2473HJ FRM                                                                      | 4822 130 31139 |  | 502a,b                 | Elco lo-leak 4.7 $\mu$ F-25 V                                                      | 5322 124 10014 |  |
| 503a,b                                                                                        | KB262                                                                             | 4822 130 31095 |  | 503a,b                 | Mylar 5.6 nF 50 V                                                                  | 4822 121 41186 |  |
| 504a,b                                                                                        | KB365                                                                             | 4822 130 31142 |  | 504a,b                 | Mylar 100 nF 50 V                                                                  | 4822 122 31271 |  |
| 801                                                                                           | S1VB-100                                                                          | 4822 130 31256 |  | 507a,b                 | Mylar 10 nF 50 V                                                                   | 4822 121 41245 |  |
| 802, 803                                                                                      | RD27E-B                                                                           | 4822 130 31255 |  | 508a,b                 | Mylar 47 nF 50 V                                                                   | 4822 121 41251 |  |
| 804, 807                                                                                      | 1SR34-100HM                                                                       | 4822 130 50317 |  | 509a,b                 | Mylar 3.3 nF 50 V                                                                  | 5322 121 54049 |  |
| 805                                                                                           | 1S2473HJ FRM                                                                      | 4822 130 31139 |  | 510a,b                 | Elect BP 3.3 nF 25 V                                                               | 4822 124 20748 |  |
| 806                                                                                           | RD6.2E-B                                                                          | 4822 130 31157 |  | 511a,b                 | Mylar 2.2 nF 50 V                                                                  | 4822 121 41247 |  |
| 851                                                                                           | LED PR4133S                                                                       | 4822 130 31257 |  | 512a,b                 | Elect 10 $\mu$ F 35 V                                                              | 4822 124 20655 |  |
| <b>-TS-</b>  |                                                                                   |                |  | 801-802                | Elect 470 $\mu$ F 50 V                                                             | 4822 124 20951 |  |
| 501a,b 502a,b                                                                                 | 2SA970 BL                                                                         | 4822 130 41316 |  | 851-852                | CERA 10 nF 500 V                                                                   | 5322 122 50046 |  |
| 503a,b 504a,b                                                                                 | 2SC2240 GR or BL                                                                  | 4822 130 41321 |  | 901a,b                 | Mylar 15 nF 50 V                                                                   | 4822 121 41246 |  |
| 505a,b                                                                                        | 2SD438 E,F                                                                        | 4822 130 41139 |  | 903a,b                 | Mylar 68 nF 50 V                                                                   | 4822 121 41252 |  |
| 506a,b                                                                                        | 2SB560 E,F                                                                        | 4822 130 41462 |  | 904a,b                 | Elect lo-leak 1 $\mu$ F-50 V                                                       | 4822 124 20658 |  |
| 801                                                                                           | 2SD600                                                                            | 4822 130 41141 |  | 906a,b                 | Elect BP 1 $\mu$ F 50 V                                                            | 4822 124 20949 |  |
| 802                                                                                           | 2SB631                                                                            | 4822 130 41136 |  | 907a,b                 | Mylar 1 nF 50 V                                                                    | 4822 122 31269 |  |
| 803-805                                                                                       | 2SC1815 Y, GR                                                                     | 4822 130 41306 |  | 908a,b                 | Mylar 56 nF 50 V                                                                   | 4822 121 41154 |  |
| 806                                                                                           | 2SA1015 Y                                                                         | 4822 130 41298 |  | 910a,b                 | Mylar 2.7 nF 50 V                                                                  | 4822 121 41184 |  |
| <b>-IC-</b>  |                                                                                   |                |  | 912a,b                 | Mylar 22 nF 50 V                                                                   | 4822 121 41248 |  |
| 901a,b                                                                                        | TA7332P                                                                           | 4822 209 80648 |  | 913a,b                 | Elect BP 10 $\mu$ F 25 V                                                           | 4822 124 20958 |  |
| <b>-R-</b>   |                                                                                   |                |  | 915a,b                 | Elect BP 3.3 $\mu$ F 25 V                                                          | 4822 124 20748 |  |
| 513a,b 514a,b                                                                                 | Fail Safe Res. 39 $\Omega$ -1/4 W                                                 | 4822 111 30595 |  | 916a,b                 | Mylar 22 nF 50 V                                                                   | 4822 121 41248 |  |
| 801, 802                                                                                      | Fus. Res. 22 $\Omega$ -1/4 W                                                      | 4822 113 90077 |  | <b>-Miscellaneous-</b> |                                                                                    |                |  |
| 803, 804                                                                                      | Fail Safe Res. 2.2k $\Omega$ -1/4 W                                               | 4822 111 30594 |  | Relay RE801 L22        | 4822 280 20074                                                                     |                |  |
| 805, 806                                                                                      | Fus. Res. 33 $\Omega$ -1/4 W                                                      | 4822 113 90078 |  | Fuse F801 100mA Slow   | 4822 253 20006                                                                     |                |  |
| 814                                                                                           | Fus. Res. 22 $\Omega$ -1/4 W                                                      | 4822 113 90077 |  |                        |                                                                                    |                |  |
| 951a,b                                                                                        | Potm. 100k $\Omega$ -Balance                                                      | 4822 100 30016 |  |                        |                                                                                    |                |  |
| 952a,b                                                                                        | Potm. 100k $\Omega$ -Volume                                                       | 4822 100 20059 |  |                        |                                                                                    |                |  |
| 953a,b                                                                                        | Potm. 100k $\Omega$ -Treble                                                       | 4822 100 20061 |  |                        |                                                                                    |                |  |
| 954a,b                                                                                        | Potm. 100k $\Omega$ -Bass                                                         | 4822 100 30015 |  |                        |                                                                                    |                |  |

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(S)

Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning av föreskrivna reservdelar.